# COURSE PLANNER



SWINBURNE UNIVERSITY OF TECHNOLOGY

## Bachelor of Computer Science – Internet of Things BA-CS

Semester 1 | 2023

#### **Recommended Sequence**

Units are listed on your Course Planner in a recommended sequence. However, this can be amended depending on unit availability, unit progression, timetabling and the semester in which you commenced your course.

### Year One

#### How to use your Course Planner

Refer to the below table to help explain what units are required each semester throughout your course. The units in your planner are colourcoded to assist you with mapping out your studies.

Semester	1   Feb/Mar 2023		
Unit Code	Unit Name	Pre-requisites	
COS10009	Introduction to Programming	Nil	<b>Course Information</b> This course has 24 units (300 credit points) consisting of
COS10026	Computing Technology Inquiry Project	Nil	
TNE10006	Networks and Switching	Nil	
COS10003	Computer and Logic Essentials*	Nil	<b>8 Core Units</b> 100 credit points
MPU3193	Philosophy and Current lssues (Malaysian and International Students)	Nil	A set of compulsory units you MUST complete as part of your Course.
Winter Te	rm   June 2023		
MPU3212	Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit)	Nil	8 Internet of Things Major Units 100 credit points A set of compulsory units you MUST complete
Semester	2   Aug/Sept 2023	as part of your Course.	
COS20007	Object-oriented Programming	COS10009	
COS10025	Technology in an Indigenous Context Project	Nil	8 Elective Units 100 credit points A combination of elective units / second-major / Minor
COS30015	IT Security*	COS10009 & COS10026 & TNE10006	
COS10022	Introduction to Data Science*	Nil	
MPU3183	Penghayatan Etika dan Peradaban (Malavsian Students Only)	Nil	

Nil

#### Year Two

MPU3143

Semester 1   Feb/Mar 2024					
Unit Code	Unit Name	Pre-requisites			
TNE10005	Network Administration	Nil			
COS20019	Cloud Computing Architecture	50cp			
COS20031	Computing Technology Design Project	COS10009 / COS10026			
SWE30011	IoT Programming	COS20007 & COS10026			
Semester 2   Aug/Sept 2024					
COS10004	Computer Systems	Co-req: COS10009			
COS30049	Computing Technology Innovation Project	Nil			
COS30017	Software Development for Mobile Devices	COS20007			
COS30019	Introduction to Artificial Intelligence*	COS20007			

Malay Language Communication 2

(International Students Only)

### Year Three

Semester 1   Feb/Mar 2025					
Unit Code	Unit Name	Pre-requisites			
COS40005	Computing Technology Project A	175ср			
SWE30003 Software Architecture and Design COS2		COS20007 & 150cp			
Elective 1					
	Elective 2				
Semester 2   Aug/Sept 2025					
COS40006	Computing Technology Project B	COS40005			
COS30020	Advanced Web Development	COS10009 & COS10026			
	Elective 3				
	Elective 4				

All commencing students of Master, Degree, Diploma and Foundation courses will be automatically registered for the Academic Integrity Training Module in the first semester (Note: Students articulating from Foundation Studies are expected to undertake this unit as a refresher). There are 4 topics in this online module that are recommended for completion during Week 1-4 of your commencing study period. At the end of this module, students are required to complete a quiz comprised of 10 questions and achieve a score of at least 90%.

Ministry of Education requires that all NEW Cohorts pursuing Degree course (International and Malaysian) students must take the MPU units as a prerequisite for the award of their degree.

- Malaysian students: Must take and pass the units as a prerequisite for the award of their degree.
- International students: Must attempt all coursework and final exam as a prerequisite for the award of their degree

Recommended Elective Units					
Unit Code	Unit Name	Pre-requisites	Offered in		
SWE30009	Software Testing and Reliability	COS20007	Aug/Sept only		
COS30045	Data Visualisation	COS10009	Aug/Sept only		
COS20030	Malware Analysis	TNE10006	Aug/Sept only		
TNE30009	Network Security and Resilience	TNE10006	Aug/Sept only		
COS30018	Intelligent Systems	COS20007	Feb/Mar only		
COS20015	Fundamental of Data Management	COS10009	Feb/Mar only		
Minor   Big Data Analytics					
COS10022	Introduction to Data Science	NIL	Feb/Mar & Aug/Sept		
COS10082	Applied Analytics in Business	NIL	Aug/Sept only		
COS20083	Advanced Data Analytics	COS10022 & COS10009	Feb/Mar only		
COS20028	Big Data Architecture and Application	COS10022 & COS20007	Aug/Sept only		
Notes					

\* Pre-scribed Elective

swinburne.edu.my| Last updated Aug 2022 | BA-CS Degree Planner